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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,574	06/23/2003	Kinya Aota	503.35255VX4	9655
20457 7:	590 11/02/2004	EXAMINER		
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET			JOHNSON, JONATHAN J	
SUITE 1800		ART UNIT	PAPER NUMBER	
ARLINGTON,	VA 22209-9889		1725	

DATE MAILED: 11/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			Mr				
	Application No.	Applicant(s)					
Office Action Summan	10/600,574	AOTA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Jonathan Johnson	1725					
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	ith the correspondence addre	ess				
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailling date of this communicati - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a rion. s, a reply within the statutory minimum of thin period will apply and will expire SIX (6) MON ristatute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. THS from the mailing date of this comm BANDONED (35 U.S.C. 8 133)	unication.				
Status							
1)⊠ Responsive to communication(s) filed on	23 June 2003.						
	This action is non-final.						
3) Since this application is in condition for al		ters, prosecution as to the me	erits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 1-3 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction as	thdrawn from consideration.						
Application Papers							
9)☐ The specification is objected to by the Exa	miner.						
	0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to		• •					
Replacement drawing sheet(s) including the control of the control							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in Ap priority documents have been r ureau (PCT Rule 17.2(a)).	pplication No. <u>08/820,231</u> . received in this National Stag	ge				
Attachment(s)							
) Notice of References Cited (PTO-892)	4) ☐ Interview Su	ummary (PTO-413)					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date 6-23-03. 	B) Paper No(s))/Mail Date formal Patent Application (PTO-152)	r)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claim 1 is rejected under 35 U.S.C. 102(a) as being anticipated by Midling et al. (WO 95/26254). Midling et al. teach at an end portion of said member adapted to be used in friction stir welding, said member has a raised portion which projects to a thickness direction of said member from one side face of said member (figure 5c), and said raised portion is a portion adapted to have a rotary tool inserted therein so as to carry out a friction stir welding (figure 5c, friction stir welding tool).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mochizuki et al. (JP 2-246863) in view of Midling et al. (WO 95/26254). Mochizuki et al. teach a third plate

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connecting said first plate and said second plate (figure 2, item 27c), and a raised portion provided on an end portion of said first plate (figure 2, item 27f), said raised portion projects to an outer side in a thickness direction of said first plate (figure 2, item 27f); at an end portion of said second plate at a side of an end portion of said hollow frame member having said raised portion (figure 2, item 27e), the hollow frame member has a second raised portion, said second raised portion projects to an outer side in a thickness direction of said second plate (figure 2, item 27e). Midling et al. teach at an end portion of first and second plate adapted to be used in friction stir welding, said member has a raised portion which projects to a thickness direction of said member from one side face of said member (figure 5c), and said raised portion is a portion adapted to have a rotary tool inserted therein so as to carry out a friction stir welding (figure 5c, friction stir welding tool). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the structure of Mochizuki et al. to tuilize friction stir welding in order to ensure uniform homogenized weld seams (see Midling et al. page 2).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Johnson whose telephone number is 571-272-1177. The examiner can normally be reached on M-Th 7:30 AM-5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonathan Johnson

Examiner
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